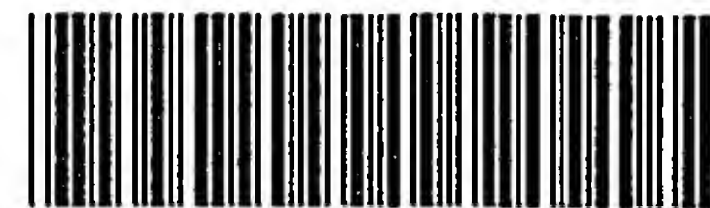


## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/589,726  
Source: FWP  
Date Processed by STIC: 8/28/06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/589,726

TIME: 10:23:46

Input Set : A:\220000129U2.Seq

Output Set: N:\CRF4\08282006\J589726.raw

4 <110> APPLICANT: HAWIGER, Jack J.  
 5 JO, Daewoong  
 7 <120> TITLE OF INVENTION: Cell-Permeable SOCS Proteins that  
 8 Inhibit Cytokine-Induced Signaling  
 11 <130> FILE REFERENCE: 22000.0129U2  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/589,726  
 14 <141> CURRENT FILING DATE: 2006-08-17  
 16 <150> PRIOR APPLICATION NUMBER: PCT/US2005/0075203  
 17 <151> PRIOR FILING DATE: 2005-03-04  
 19 <150> PRIOR APPLICATION NUMBER: 60/550,037  
 20 <151> PRIOR FILING DATE: 2004-03-04  
 22 <160> NUMBER OF SEQ ID NOS: 29  
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 19  
 28 <212> TYPE: PRT  
 29 <213> ORGANISM: Artificial Sequence  
 31 <220> FEATURE:  
 32 <223> OTHER INFORMATION: Description of Artificial Sequence; note =  
 33 synthetic construct  
 35 <400> SEQUENCE: 1  
 36 Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro  
 37 1 5 10 15  
 38 Arg Gly Ser  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 12  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Description of Artificial Sequence; note =  
 48 synthetic construct  
 50 <400> SEQUENCE: 2  
 51 Ala Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro  
 52 1 5 10  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 212  
 56 <212> TYPE: PRT  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Description of Artificial Sequence; note =  
 61 synthetic construct  
 63 <400> SEQUENCE: 3  
 64 Met Val Ala Arg Asn Gln Val Ala Ala Asp Asn Ala Ile Ser Pro Ala

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/589,726

DATE: 08/28/2006

TIME: 10:23:46

Input Set : A:\220000129U2.Seq

Output Set: N:\CRF4\08282006\J589726.raw

```

65 1 5 10 15
66 Ala Glu Pro Arg Arg Arg Ser Glu Pro Ser Ser Ser Ser Ser Ser
67 20 25 30
68 Ser Pro Ala Ala Pro Val Arg Pro Arg Pro Cys Pro Ala Val Pro Ala
69 35 40 45
70 Pro Ala Pro Gly Asp Thr His Phe Arg Thr Phe Arg Ser His Ser Asp
71 50 55 60
72 Tyr Arg Arg Ile Thr Arg Thr Ser Ala Leu Leu Asp Ala Cys Gly Phe
73 65 70 75 80
74 Tyr Trp Gly Pro Leu Ser Val His Gly Ala His Glu Arg Leu Arg Ala
75 85 90 95
76 Glu Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln Arg Asn Cys
77 100 105 110
78 Phe Phe Ala Leu Ser Val Lys Met Ala Ser Gly Pro Thr Ser Ile Arg
79 115 120 125
80 Val His Phe Gln Ala Gly Arg Phe His Leu Asp Gly Ser Arg Glu Thr
81 130 135 140
82 Phe Asp Cys Leu Phe Glu Leu Leu Glu His Tyr Val Ala Ala Pro Arg
83 145 150 155 160
84 Arg Met Leu Gly Ala Pro Leu Arg Gln Arg Arg Val Arg Pro Leu Gln
85 165 170 175
86 Glu Leu Cys Arg Gln Arg Ile Val Ala Ala Val Gly Arg Glu Asn Leu
87 180 185 190
88 Ala Arg Ile Pro Leu Asn Pro Val Leu Arg Asp Tyr Leu Ser Ser Phe
89 195 200 205
90 Pro Phe Gln Ile
91 210
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 225
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
100 synthetic construct
102 <400> SEQUENCE: 4
103 Met Val Thr His Ser Lys Phe Pro Ala Ala Gly Met Ser Arg Pro Leu
104 1 5 10 15
105 Asp Thr Ser Leu Arg Leu Lys Thr Phe Ser Ser Lys Ser Glu Tyr Gln
106 20 25 30
107 Leu Val Val Asn Ala Val Arg Lys Leu Gln Glu Ser Gly Phe Tyr Trp
108 35 40 45
109 Ser Ala Val Thr Gly Gly Glu Ala Asn Leu Leu Leu Ser Ala Glu Pro
110 50 55 60
111 Ala Gly Thr Phe Leu Ile Arg Asp Ser Ser Asp Gln Arg His Phe Phe
112 65 70 75 80
113 Thr Leu Ser Val Lys Thr Gln Ser Gly Thr Lys Asn Leu Arg Ile Gln
114 85 90 95
115 Cys Glu Gly Gly Ser Phe Ser Leu Gln Ser Asp Pro Arg Ser Thr Gln
116 100 105 110

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/589,726

DATE: 08/28/2006

TIME: 10:23:46

Input Set : A:\220000129U2.Seq

Output Set: N:\CRF4\08282006\J589726.raw

```

117 Pro Val Pro Arg Phe Asp Cys Val Leu Lys Leu Val His His Tyr Met
118      115      120      125
119 Pro Pro Pro Gly Thr Pro Ser Phe Ser Leu Pro Pro Thr Glu Pro Ser
120      130      135      140
121 Ser Glu Val Pro Glu Gln Pro Pro Ala Gln Ala Leu Pro Gly Ser Thr
122 145      150      155      160
123 Pro Lys Arg Ala Tyr Tyr Ile Tyr Ser Gly Gly Glu Lys Ile Pro Leu
124      165      170      175
125 Val Leu Ser Arg Pro Leu Ser Ser Asn Val Ala Thr Leu Gln His Leu
126      180      185      190
127 Cys Arg Lys Thr Val Asn Gly His Leu Asp Ser Tyr Glu Lys Val Thr
128      195      200      205
129 Gln Leu Pro Gly Pro Ile Arg Glu Phe Leu Asp Gln Tyr Asp Ala Pro
130      210      215      220
131 Leu
132 225
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 243
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
141     synthetic construct
144 <400> SEQUENCE: 5
145 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
146 1      5      10      15
147 Arg Gly Ser Met Val Ala Arg Asn Gln Val Ala Ala Asp Asn Ala Ile
148      20      25      30
149 Ser Pro Ala Ala Glu Pro Arg Arg Arg Ser Glu Pro Ser Ser Ser
150      35      40      45
151 Ser Ser Ser Ser Pro Ala Ala Pro Val Arg Pro Arg Pro Cys Pro Ala
152      50      55      60
153 Val Pro Ala Pro Ala Pro Gly Asp Thr His Phe Arg Thr Phe Arg Ser
154 65      70      75      80
155 His Ser Asp Tyr Arg Arg Ile Thr Arg Thr Ser Ala Leu Leu Asp Ala
156      85      90      95
157 Cys Gly Phe Tyr Trp Gly Pro Leu Ser Val His Gly Ala His Glu Arg
158      100     105     110
159 Leu Arg Ala Glu Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln
160      115     120     125
161 Arg Asn Cys Phe Phe Ala Leu Ser Val Lys Met Ala Ser Gly Pro Thr
162      130     135     140
163 Ser Ile Arg Val His Phe Gln Ala Gly Arg Phe His Leu Asp Gly Ser
164 145      150     155     160
165 Arg Glu Thr Phe Asp Cys Leu Phe Glu Leu Leu Glu His Tyr Val Ala
166      165     170     175
167 Ala Pro Arg Arg Met Leu Gly Ala Pro Leu Arg Gln Arg Arg Val Arg
168      180     185     190
169 Pro Leu Gln Glu Leu Cys Arg Gln Arg Ile Val Ala Ala Val Gly Arg

```

## RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/589,726

TIME: 10:23:46

Input Set : A:\220000129U2.Seq

Output Set: N:\CRF4\08282006\J589726.raw

```

170          195          200          205
171 Glu Asn Leu Ala Arg Ile Pro Leu Asn Pro Val Leu Arg Asp Tyr Leu
172          210          215          220
173 Ser Ser Phe Pro Phe Gln Ile Ala Ala Val Leu Leu Pro Val Leu Leu
174 225          230          235          240
175 Ala Ala Pro
176 <210> SEQ ID NO: 6
177 <211> LENGTH: 243
178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence; note =
182     synthetic construct
183 <400> SEQUENCE: 6
184 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
185 1          5          10          15
186 Arg Gly Ser Ala Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro Met
187          20          25          30
188 Val Ala Arg Asn Gln Val Ala Ala Asp Asn Ala Ile Ser Pro Ala Ala
189          35          40          45
190 Glu Pro Arg Arg Arg Ser Glu Pro Ser Ser Ser Ser Ser Ser Ser
191          50          55          60
192 Pro Ala Ala Pro Val Arg Pro Arg Pro Cys Pro Ala Val Pro Ala Pro
193 65          70          75          80
194 Ala Pro Gly Asp Thr His Phe Arg Thr Phe Arg Ser His Ser Asp Tyr
195          85          90          95
196 Arg Arg Ile Thr Arg Thr Ser Ala Leu Leu Asp Ala Cys Gly Phe Tyr
197          100          105          110
198 Trp Gly Pro Leu Ser Val His Gly Ala His Glu Arg Leu Arg Ala Glu
199          115          120          125
200 Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln Arg Asn Cys Phe
201          130          135          140
202 Phe Ala Leu Ser Val Lys Met Ala Ser Gly Pro Thr Ser Ile Arg Val
203 145          150          155          160
204 His Phe Gln Ala Gly Arg Phe His Leu Asp Gly Ser Arg Glu Thr Phe
205          165          170          175
206 Asp Cys Leu Phe Glu Leu Leu Glu His Tyr Val Ala Ala Pro Arg Arg
207          180          185          190
208 Met Leu Gly Ala Pro Leu Arg Gln Arg Arg Val Arg Pro Leu Gln Glu
209          195          200          205
210 Leu Cys Arg Gln Arg Ile Val Ala Ala Val Gly Arg Glu Asn Leu Ala
211          210          215          220
212 Arg Ile Pro Leu Asn Pro Val Leu Arg Asp Tyr Leu Ser Ser Phe Pro
213 225          230          235          240
214 Phe Gln Ile
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 244
217 <212> TYPE: PRT
218 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

DATE: 08/28/2006

PATENT APPLICATION: US/10/589,726

TIME: 10:23:46

Input Set : A:\220000129U2.Seq

Output Set: N:\CRF4\08282006\J589726.raw

226 &lt;220&gt; FEATURE:

227 <223> OTHER INFORMATION: Description of Artificial Sequence; note =  
228 synthetic construct

230 &lt;400&gt; SEQUENCE: 7

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231 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
232 1          5          10          15
233 Arg Gly Ser Met Val Thr His Ser Lys Phe Pro Ala Ala Gly Met Ser
234          20          25          30
235 Arg Pro Leu Asp Thr Ser Leu Arg Leu Lys Thr Phe Ser Ser Lys Ser
236          35          40          45
237 Glu Tyr Gln Leu Val Val Asn Ala Val Arg Lys Leu Gln Glu Ser Gly
238          50          55          60
239 Phe Tyr Trp Ser Ala Val Thr Gly Gly Glu Ala Asn Leu Leu Leu Ser
240 65          70          75          80
241 Ala Glu Pro Ala Gly Thr Phe Leu Ile Arg Asp Ser Ser Asp Gln Arg
242          85          90          95
243 His Phe Phe Thr Leu Ser Val Lys Thr Gln Ser Gly Thr Lys Asn Leu
244          100         105         110
245 Arg Ile Gln Cys Glu Gly Gly Ser Phe Ser Leu Gln Ser Asp Pro Arg
246          115         120         125
247 Ser Thr Gln Pro Val Pro Arg Phe Asp Cys Val Leu Lys Leu Val His
248          130         135         140
249 His Tyr Met Pro Pro Pro Gly Thr Pro Ser Phe Ser Leu Pro Pro Thr
250 145         150         155         160
251 Glu Pro Ser Ser Glu Val Pro Glu Gln Pro Pro Ala Gln Ala Leu Pro
252          165         170         175
253 Gly Ser Thr Pro Lys Arg Ala Tyr Tyr Ile Tyr Ser Gly Gly Glu Lys
254          180         185         190
255 Ile Pro Leu Val Leu Ser Arg Pro Leu Ser Ser Asn Val Ala Thr Leu
256          195         200         205
257 Gln His Leu Cys Arg Lys Thr Val Asn Gly His Leu Asp Ser Tyr Glu
258          210         215         220
259 Lys Val Thr Gln Leu Pro Gly Pro Ile Arg Glu Phe Leu Asp Gln Tyr
260 225         230         235         240
261 Asp Ala Pro Leu

```

264 &lt;210&gt; SEQ ID NO: 8

265 &lt;211&gt; LENGTH: 256

266 &lt;212&gt; TYPE: PRT

267 &lt;213&gt; ORGANISM: Artificial Sequence

269 &lt;220&gt; FEATURE:

270 <223> OTHER INFORMATION: Description of Artificial Sequence; note =  
271 synthetic construct

273 &lt;400&gt; SEQUENCE: 8

```

274 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
275 1          5          10          15
276 Arg Gly Ser Met Val Thr His Ser Lys Phe Pro Ala Ala Gly Met Ser
277          20          25          30
278 Arg Pro Leu Asp Thr Ser Leu Arg Leu Lys Thr Phe Ser Ser Lys Ser
279          35          40          45

```

VERIFICATION SUMMARY

DATE: 08/28/2006

PATENT APPLICATION: US/10/589,726

TIME: 10:23:47

Input Set : A:\220000129U2.Seq

Output Set: N:\CRF4\08282006\J589726.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number